

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the above-identified application:

Claim 1 (currently amended): An air outflow valve, comprising:

- a valve body;
- a valve disk movably mounted on the valve body and moveable through a plurality of positions between a closed position and an open position;
- ~~at least one~~ a control arm coupled to the valve disk;
- ~~at least one~~ a biasing element coupled between ~~each~~ the control arm and the valve body for biasing the valve disk toward the closed position;
- a control diaphragm mounted within the valve body;
- ~~at least one~~ a retainer coupled to the control diaphragm, the retainer having a body with an opening and an internal surface defining a cavity, the cavity extending from the opening a predetermined distance within the retainer; and
- ~~at least one~~ a cable having a first end and a second end, the first end coupled to the control arm and the second end inserted through the opening and slidably located in the retainer cavity, the second end moveable within the retainer cavity between the opening and a position along the predetermined distance of the cavity,
- wherein the opening of the retainer is configured to retain the second end therein.

Claim 2 (currently amended): The valve of Claim 1, further comprising:

- ~~at least one~~ a pulley assembly mounted within the valve body, the pulley assembly including a rotationally mounted pulley positioned to contact at least a portion of the cable when the cable is in tension.

Claim 3 (currently amended): The valve of Claim 2, wherein the pulley assembly comprises:

- a pulley bracket having a base coupled to the valve body;

at least two support arms extending from the base at a predetermined angle relative to the base, each support arm having a first end coupled to the base and a second end distal to the first end; and

~~a pulley rotationally mounted between the support arms proximate the second ends thereof; and~~

a roll pin mounted between the support arms proximate the first ends thereof,

wherein the pulley is rotationally mounted between the support arms proximate the second ends thereof.

Claim 4 (original): The valve of Claim 3, wherein the pulley assembly further comprises a sleeve bearing on which the pulley is rotationally mounted.

Claim 5 (currently amended): The valve of Claim 3, wherein the base of the pulley assembly bracket includes at least one cutout on a portion thereof.

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Claim 6 (original): The valve of Claim 1, wherein the valve disk comprises a butterfly plate.

Claim 7 (currently amended): The valve of Claim 6, further comprising:  
a shaft rotationally mounted within the valve body, wherein the valve plate is coupled to the shaft.

Claim 8 (original): The valve of Claim 1, wherein:  
the valve body includes at least a first chamber and a second chamber; and  
the control diaphragm isolates the first chamber from the second chamber.

Claim 9 (original): The valve of Claim 8, further comprising:  
a control vacuum pressure port coupled to the first chamber for receiving a control vacuum having a modulated magnitude,  
wherein the position of the control diaphragm is modulated based on the modulated control vacuum magnitude.

Claim 10 (currently amended): The valve of Claim 1, wherein each of the cable[s] has a retaining ball coupled to the first end, and wherein each of the control arm[s] comprises:

a main body portion;

at least two arms extending from the main body portion substantially parallel with one another and spaced apart from one another to form a slot there between, each arm including an indentation collocated with the indentation in the other arm to form a retaining hole for receiving the retaining ball therein,

wherein the retaining hole is dimensioned so as to allow the retaining ball to move within the retaining hole.

Claim 11 (currently amended): The valve of Claim 10, wherein each of the control arm[s] further comprises a roll pin coupled between each of the two arms, and wherein the biasing element is coupled to the roll pin.

Claim 12 (original): The valve of Claim 10, wherein edges of the slot are relatively smooth.

Claims 13-24 (cancelled).

Claim 25 (currently amended): A kit for modifying an air outflow valve having a valve body, a valve disk movably mounted within the valve body and moveable through a plurality of positions between a closed position and an open position, and at least one a control arm coupled to the valve disk, the kit comprising:

a control arm, wherein the control arm comprises:

a main body portion;

at least two arms extending from the main body portion substantially parallel with one another and spaced apart from one another to form a slot there between, each arm including an indentation collocated with the indentation in the other arm to form a retaining hole for receiving the retaining ball therein;

~~at least one~~ a cable assembly, wherein each the cable assembly comprises:

a retainer having a body with an opening in a first end thereof and an internal surface defining a cavity, the cavity extending from the opening a predetermined distance within the retainer; and

a cable having a first end and a second end, the first end adapted for coupling to the control arm retaining hole and the second end inserted through the opening and slidably retained within the retainer cavity, the second end moveable within the retainer cavity between the opening and a position along the predetermined distance of the cavity,

wherein the opening of the retainer is configured to retain the second end therein, and wherein the control arm retaining hole is dimensioned so as to allow the retaining ball to move within the control arm retaining hole;

and

a pulley assembly adapted for mounting within the valve body, the pulley assembly including a rotationally mounted pulley positioned to be in physical contact with at least a portion of the cable when the cable is in tension.

Claim 26 (currently amended): The kit of Claim 25, wherein each the cable assembly further comprises:

a first retaining ball coupled to the first end of the cable; and

a second retaining ball coupled to the second end of the cable and operable to prevent the second end from being removed from the retainer opening.

Claim 27 (currently amended): The kit of Claim 25, wherein each the cable assembly further includes threads on at least a portion of an external surface of the retainer.

Claim 28 (canceled).

Claim 29 (canceled).

Claim 30 (currently amended): The kit of Claim ~~[[29]]~~ 25, wherein the pulley assembly comprises:

- a pulley bracket having base coupled to the valve body;
  - at least two support arms extending from the base at a predetermined angle relative to the base, each support arm having a first end coupled to the base and a second end distal to the first end; and
  - ~~a pulley rotationally mounted between the support arms proximate the second ends thereof; and~~
  - a roll pin mounted between the support arms proximate the first ends thereof
- wherein the pulley is rotationally mounted between the support arms proximate the second ends thereof.

Claim 31 (currently amended): The kit of Claim 30, wherein the pulley assembly further comprises a sleeve bearing on which the pulley is rotationally mounted.

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Claim 32 (currently amended): The kit of Claim 30, wherein the base of the pulley assembly bracket includes at least one cutout on a portion thereof.

Claim 33 (canceled).

Claim 34 (currently amended): The kit of Claim ~~[[33,]]~~ 25, further comprising:  
a biasing element

wherein ~~each of the~~ control arm~~[s]~~ further comprises a roll pin coupled between each of the two arms, and wherein the biasing element is adapted to be coupled to the roll pin.

Claim 35 (currently amended): The kit of Claim ~~[[33]]~~ 25, wherein edges of the slot are relatively smooth.

Claim 36 (new): An air outflow valve, comprising:

- a valve body;
- a valve disk movably mounted on the valve body and moveable through a plurality of positions between a closed position and an open position;
- a control arm coupled to the valve disk, the control arm including:
  - a main body portion, and
  - at least two arms extending from the main body portion substantially parallel with one another and spaced apart from one another to form a slot there between, each arm including an indentation collocated with the indentation in the other arm to form a retaining hole;
- a biasing element coupled between the control arm and the valve body for biasing the valve disk toward the closed position;
- a control diaphragm mounted within the valve body;
- a retainer coupled to the control diaphragm, the retainer having a body with an opening and an internal surface defining a cavity, the cavity extending from the opening a predetermined distance within the retainer; and
- a cable having a first end and a second end, the first end having a retaining ball coupled thereto and the second end inserted through the opening in the retainer body and slidably located in the retainer cavity, the second end moveable within the retainer cavity between the opening and a position along the predetermined distance of the cavity, wherein the opening of the retainer body is configured to retain the second end therein, and wherein the retaining hole is dimensioned so as to allow the retaining ball to move within the retaining hole.